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EIA RS-229-A

EIA STANDARD

*Fixed, Wire-Wound,
Precision Resistors*

RS-229-A
(Revision of RS-229)



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FIXED, WIRE-WOUND, PRECISION RESISTORS

(From EIA Standard RS-229 and Standards Proposal No. 862 formulated under the cognizance of Working Group P-1.4 on Wire-Wound, and Committee P-1 on Resistive Components)

1. SCOPE

This standard covers fixed precision wire-wound resistors of $\pm 1\%$ accuracy or better and various wattage ratings. Classes suitable for various applications are defined.

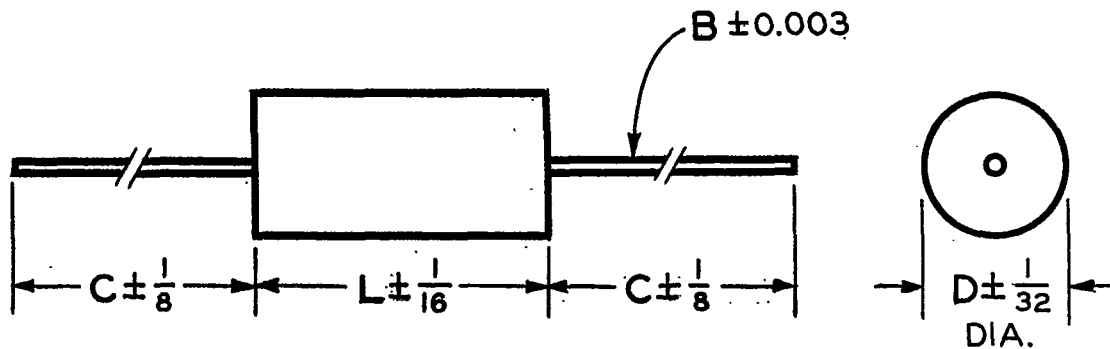


Figure 1

TABLE I

Style	"D"	"C"	"L"	"B"	Wattage Rating	*Maximum Voltage Rating	Maximum Resistance
CRB52	$\frac{3}{8}$	2	1	0.083	0.5	600	1.0 Meg.
CRB53	$\frac{3}{8}$	2	$\frac{3}{4}$	0.083	0.33	300	750K
CRB54	$\frac{1}{4}$	2	$\frac{3}{4}$	0.083	0.25	300	330K
CRB55	$\frac{1}{4}$	2	$\frac{1}{2}$	0.083	0.15	200	225K
CRB56	$\frac{1}{4}$	2	$1\frac{1}{32}$	0.083	0.125	150	125K
CRB62	$\frac{1}{8}$	2	$\frac{3}{8}$	0.021	0.125	50	100K
CRB63	$\frac{5}{64}$	$1\frac{1}{2}$	$\frac{1}{4}$	0.021	0.1	30	26K

* DC or peak AC voltage

TABLE II

Standard resistance tolerances are as follows:

Resistance Tolerance	Symbol	Minimum Resistance Value—Ohms
$\pm 1.0\%$	F	1.0
$\pm 0.5\%$	D	1.0
$\pm 0.25\%$	C	10.0
$\pm 0.1\%$	B	50.0
$\pm 0.05\%$	N	100.0

2. ELECTRICAL CHARACTERISTICS AND STYLES

2.1 Value of Resistance

2.1.1 Resistance measurements shall be in absolute ohms at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$. Measurements are to be made on the leads at a point $\frac{3}{8}'' \pm \frac{1}{16}''$ from the resistor body.

2.1.2 Any value between maximum resistance shown in Table I and minimum resistance shown in Table II can be furnished.

2.2 Power Rating

2.2.1 In no case shall voltage applied exceed the maximum voltage listed in Table I, or the voltage calculated from the resistance and wattage.

If the resistors are operated at high ambient temperatures, the applicable derating curve of Figure 2 shall be applied to the power rating of Table I.

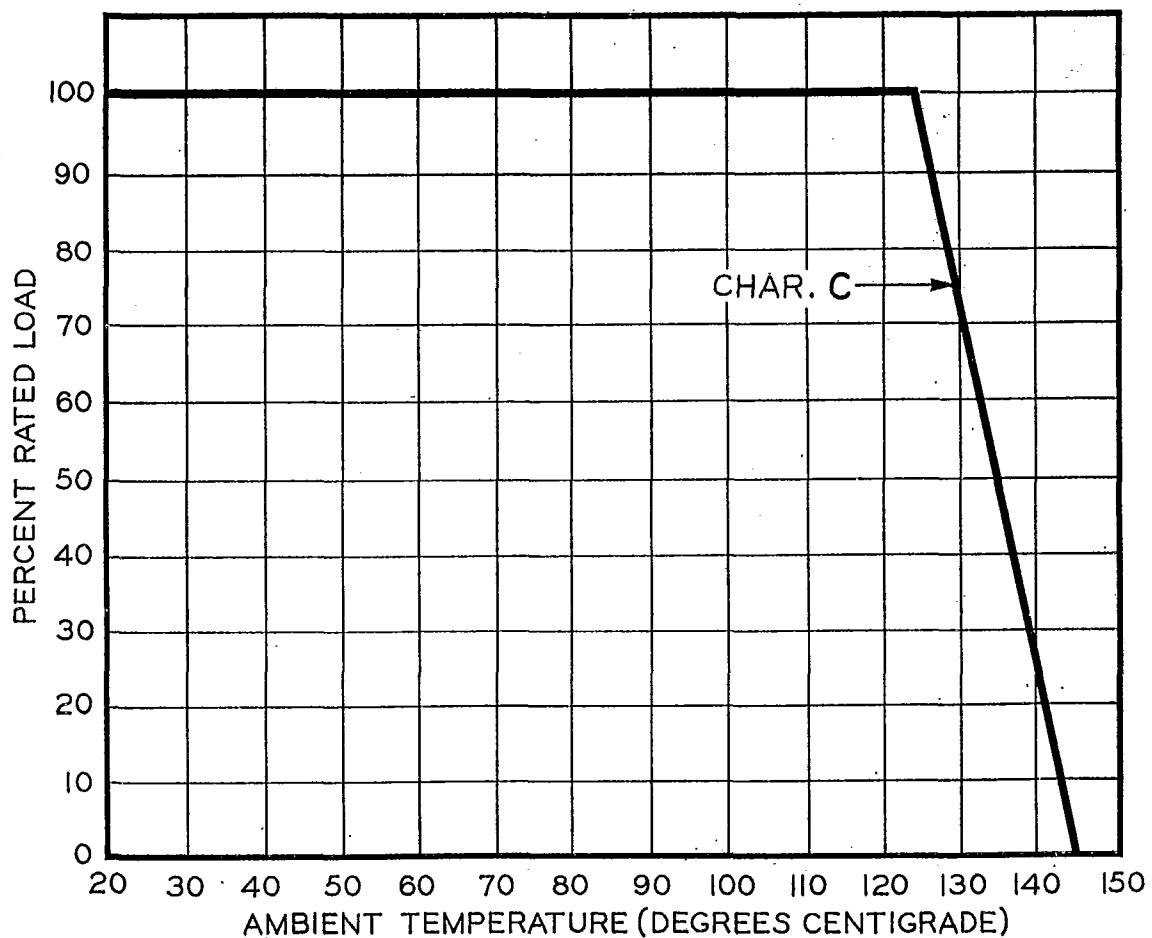


Figure 2

2.3 Characteristic

TABLE IV

Symbol	Maximum Temperature (full wattage)	Maximum Temperature
C	125°C	145°C